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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/805,137	03/14/2001		William P. Moore	BU9-98-050DIV2	3995	
21254	7590	11/10/2003		EXAMINER		
MCGINN 6	•	PLLC OUSE ROAD	THOMPSON, ANNETTE M			
SUITE 200	CORTIC	OOSE ROAD		ART UNIT	ART UNIT PAPER NUMBER	
VIENNA, V	/A 22182	2-3817	2825	<u> </u>		

DATE MAILED: 11/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

ν,	Application No.	Applicant(s)	
** *** *** *** *** *** *** *** *** ***	09/805,137	MOORE ET AL.	,
Office Action Summary	Examin r	Art Unit	M
	A. M. Thompson	2825	Hu
The MAILING DATE of this communication a Peri d for Reply	ppears on th cover sheet w	vith th correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply for the provided priod for reply is specified above, the maximum statutory perions are provided by the communication. - Failure to reply within the set or extended period for reply will, by statured and patent term adjustment. See 37 CFR 1.704(b). Status	I. I.136(a). In no event, however, may a sply within the statutory minimum of th d will apply and will expire SIX (6) MC Ite, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this commi	unication.
1) Responsive to communication(s) filed on 08	<u> 3 August 2003</u> .		
2a)☐ This action is FINAL . 2b)☑	This action is non-final.		
Since this application is in condition for allogation closed in accordance with the practice under Disposition of Claims			nerits is
4) Claim(s) <u>5,7,8,18,19 and 21</u> is/are pending	in the application.	•	
4a) Of the above claim(s) is/are withdo	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>5,7,8,18,19 and 21</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examin	ner.		
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by	the Examiner.	
Applicant may not request that any objection to			
11) The proposed drawing correction filed on <u>08</u>		ved b) disapproved by the E	Examiner.
If approved, corrected drawings are required in			
12) The oath or declaration is objected to by the B	examiner.		en .
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C	. § 119(a)-(d) or (t).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docume			
2. Certified copies of the priority docume			
 3. ☐ Copies of the certified copies of the prapplication from the International E * See the attached detailed Office action for a limit 	Bureau (PCT Rule 17.2(a))		ge
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C	. § 119(e) (to a provisional ap	plication).
a) ☐ The translation of the foreign language p 15)☒ Acknowledgment is made of a claim for dome			
Attachment(s)	-		
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-15	

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DETAILED ACTION

Applicants' Amendment Under 37 C.F.R. §1.111 has been examined and remarks reviewed. The drawings and specification are amended. Claims 5, 7, 8, 18, 19, and 21 are pending.

1. Although Applicants' amendment is considered persuasive, Applicant's claims are not yet in an allowable condition. In this case, Examiner has restarted prosecution and accordingly this second non-final action on the merits issues.

Drawings

2. The replacement drawing sheet were received on 8 August 2003. These drawings are approved

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: A Method for Reduced Power Consumption.

4. The disclosure is objected to because of the following informalities: In the specification, the acronym HDL does not stand for "hardware design language level". Although Applicants are free to be their own lexicographers, where, as here, Applicants apparently intend to use the term's plain and well-known meaning, the term should be accurately defined. *HDL* is an acronym that commonly stands for Hardware Description Language; but see Applicants' specification, page 5, line 12.

Appropriate correction is required.

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Claim Objections

Claims 5, 8, 18, 19, and 21 are objected to because of the following 5. Pursuant to claim 5, at line 4, change "percycle" to - -per-cycle- -.; informalities: additionally lines 6-7 requires rephrasing; Further pursuant to claim 5, Applicants reference "the previous state" and "don't care state"; Not only does the phrase "the previous state" lack antecedent basis, but it has not been previously established that the control signals have states. Pursuant to claim 8, at line 2, the word from is misspelled. Pursuant to claim 18, lines 3-4 require rephrasing for clarity; additionally, line 4, contains an unattached "s". At line 5, "at a first function boundary", Applicants should state where the first function boundary exists (e.g. is it the first function boundary of the microprocessor? the template?). Additionally, pursuant to claim 18, "the updated microcode function block" lacks antecedent basis; "the one control signal" lacks antecedent basis; "the updated microcode function block" and "the control bit" lacks antecedent basis. Pursuant to claim 19, it is not only unclear what "true Os", "true Is" represent, but the "s" should be changed to 's; at the last line "function" should be plural. Additionally, pursuant to claim 19, at line 13, chang "sill" to --still--; at line 20, capitalize Verilog. Pursuant to claim 21, "the control signal" and "the previous state" lacks antecedent basis. Additionally, at the last line, signals is misspelled. Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. Claims 5, 7, 8, 18, 19 and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject

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matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Applicants reference the term "test sweep" in the specification and the claims. However, Applicants' specification does not disclose a clear meaning of the term "test sweep". Apparently a *test sweep* is used to determine many things, but confusion still reigns regarding what a *test sweep* does; the definition of a *test sweep* and the scope of its application is unknown. A search of the prior art reveals that "test sweep" is not a common term in the art. Therefore, Applicants have the burden of clearly and adequately defining this term.

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 5, 7, 8, 18, 19 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. Pursuant to claim 5, the relationship between control signals and new data is unclear. Pursuant to claim 18, the omitted structural cooperative relationships are between function types and microprocessor; it is unclear whether function types exist within the microprocessor; additionally, the relationship between the per-cycle basis updating and the template and the design specification is unclear; further the relationship between the first function boundary and the rest of the claim is unclear; still further, the relationship between the opcode group and the rest of the claim is undefined and hence unclear. Pursuant to claim 19,

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although it is clear that Applicants are outlining method steps, the relationship between

the various claim limitations is unclear, e.g. the relationship between a template and the

per-bit basis; the relationship between the test sweep and the bit-to-bit interconnections;

the relationship between function counts and function types; the relationship between

full regression and debugging and the templates. Pursuant to claim 21, the relationship

between control signals and new data is unclear. Claims dependent from the rejected

base claims are likewise rejected.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Please reference the PTO-892 for a complete listing.

10. Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to A.M. Thompson whose telephone number is (703) 305-

7441. The Examiner can usually be reached Monday thru Friday from 8:00 a.m. to 5:00

p.m.. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Matthew S. Smith, can be reached on (703) 308-1323.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956 or the Customer Service Center whose telephone number is (703) 306-3329.

11. Responses to this action should be mailed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

or faxed to:

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(703) 872-9306, (for all **OFFICIAL** communications intended for entry)

Hand-delivered responses should be brought to Crystal Plaza 4, 2021 South Clark

Place, Arlington, VA., Fourth Floor (Receptionist).

A. M. THOMPSON

Master's Level Patent Examiner